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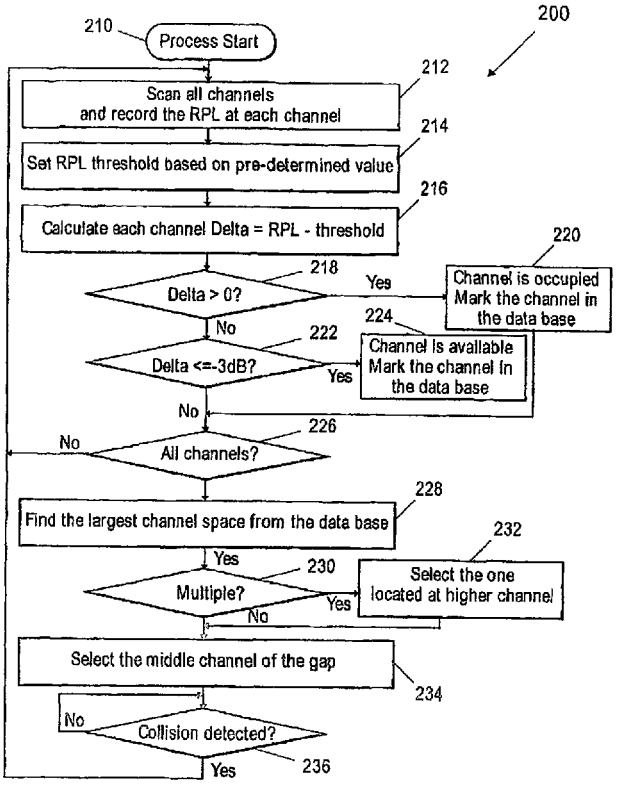
(54) Title: UNIFORM CHANNEL SPREADING IN A WIRELESS LOCAL AREA NETWORK USING DYNAMIC FREQUENCY SELECTION



(57) Abstract: Briefly, in accordance with one embodiment of the invention, a device may dynamically select a frequency on which to communicate on a wireless local area network by determining which channels are available and which are unoccupied, for example using a received signal power level measurement. A linear folding algorithm may be used to select an available channel at a midpoint in a larger gap between occupied channels. In the event there are multiple larger gaps of the same size, the larger gap at the higher frequency may be selected.

WO 2005/009068 A3

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/38 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KERRY S J ET AL: "Liaison statement on the compatibility between IEEE 802.11a and radars in the Radiolocation and Radionavigation service in the 5250-5350 MHz and 5470-5725 MHz bands" PROPOSED POSITION PAPER IEEE 802.11-01, 17 January 2001 (2001-01-17), pages 1-6, XP002180310 the whole document ----- -/--	1-20

[X] Further documents are listed in the continuation of box C.

[ ] Patent family members are listed in annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
5 January 2005	25/01/2005

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1

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive; Final draftETSI EN 301 893" ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. BR, no. V122, June 2003 (2003-06), XP014003974 ISSN: 0000-0001 paragraph '04.6! - paragraph '4.5.5.1!	1-20

1